CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	7.2	4	4
8	GSB	SIEVE ANALYSIS	One Test		1	1
9	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

10	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
11	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
12	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
13	TACK COAT	Rate of spread	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-08-25-41** **Date: 20-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R.L.ARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-08-25-41** **Date: 20-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-08-25-41** **Date: 19-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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CIVIL Pro Sig Date BANGALORE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-08-25-41** **Date: 19-02-21**

Customer : Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka satellite town Sub Division, BBMP, Bangalore.

Project Name : Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03

Agency : Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 17-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-08-25-41

Date: 22/03/2021

Customer : Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka satellite town Sub Division, BBMP, Bangalore.

Project Name : Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03

Agency : Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-03-21

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	15/03/2021	22/03/2021	151.95 X 150.68 X 151.75	22896	8.932	428.3	18.7	18.6
2	RCC	M20	15/03/2021	22/03/2021	151.85 X 149.46 X 150.21	22695	8.521	412.5	18.2	
3	RCC	M20	15/03/2021	22/03/2021	150.73 X 150.84 X 149.95	22735	8.844	427.4	18.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/04/2021

Lab ID	:	CP-2021-08-25-41
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-21
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	15/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	RCC	M20	18/03/2021	15/04/2021	149.96 X 150.71 X 149.66	22600	8.122	519.9	23.0	23.0
2	RCC	M20	18/03/2021	15/04/2021	149.38 X 150.17 X 149.47	22432	8.557	507.0	22.6	
3	RCC	M20	18/03/2021	15/04/2021	149.27 X 151.94 X 149.65	22681	8.923	532.5	23.5	

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2021-08-25-41** **Date: 14-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no - 03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-21
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	12-04-21
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

• The results obtained are satisfactory as per standard requirements.

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Quality Manager

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End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-08-25-41**	**Date: 03-06-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no - 03	
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	02-06-21	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	02-06-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	5.0
4	Average percentage	%	4.9	

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R KARTHIK RECHAN
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Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2021-08-25-41** **Date: 01-07-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no - 03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	30-06-21
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of Test	:	30-06-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	5.2
4	Average percentage	%	5.0	

FOR CIVIL Pro.
B KARTHIK RECHAN
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2021-08-25-41** **Date: 17-05-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	13-05-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

• The results obtained are satisfactory as per standard requirements.

Note:-

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R KARTHIK RECHAN
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Quality Manager

End of Report

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Lab ID : **CP-RW-2021-08-25-41** **Date: 26-07-21**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.1	85.9	70-88
4.75	112	178	38.0	62.0	53-71
2.36	88	266	56.7	43.3	42-58
1.18	29	295	62.9	37.1	34-48
0.6	11	306	65.2	34.8	26-38
0.3	46	352	75.1	24.9	18-28
0.15	45	397	84.6	15.4	12-20
0.075	45	442	94.2	5.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.9	62.1	53-71
2.36	88	266	56.6	43.4	42-58
1.18	29	295	62.8	37.2	34-48
0.6	11	306	65.1	34.9	26-38
0.3	46	352	74.9	25.1	18-28
0.15	45	397	84.5	15.5	12-20
0.075	45	442	94.0	6.0	4-10

• The results obtained are satisfactory as per standard requirements.

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.
R. MURTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2021-08-25-41**
		Date: 19-04-21
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no - 03
Agency	:	Sri. B.R.Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	17-04-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

Note:-

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CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro,

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2021-08-25-41** **Date: 05-06-21**
Customer	:	Assistant Executive Engineer, Yelahanka satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to cross roads at chikkadinne to Tirumalanagara in ward no -03
Agency	:	Sri. B.R Mohan, No:10 , 1st Main Chikkabommasandra, Yelahanka new Town, Bangalore-560064.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-01/W.O/248/2020-21
Sample Condition	:	Satisfactory
Date of Receipt	:	03-06-21
Type of Mix	:	Tack coat
Date of Test	:	03-06-21

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-
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All information Furnished by Customer/ Representative
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FOR CIVIL Pro.,
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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